

Amendments to the Abstract

Abstract of the Disclosure

The invention relates to the chemical industry, namely production of polysilicate binder and adhesive compositions for adhesives and protective and decorative coatings on its basis, and can be used in industry and household (for adhering ceramic or natural stone tiles or other facing materials to concrete and plastered surfaces of walls, ceilings, floors) for inner and outer finishing of residential and public buildings, and also for corrosion protection of different surfaces.

Polysilicate binder is produced by preparing a product of interaction between sodium and/or potassium silicate aqueous solution with specific module and density and lithium hydroxide, and subsequent addition into it amorphous silicon dioxide with specific surface from 175 to 380 m²/g.

Adhesive composition for adhesives and coatings comprises from 25 to 49 percent by weight of above mentioned polysilicate binder and from 51 to 75 percent by weight of inorganic filler.

Adhesive composition for adhesives and coatings has higher bond strength, including under prolonged water exposure, higher working life and stability under storage, ecology safety, higher thermal resistance and refractoriness.